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Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT of CONSERVATION
AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

AS OF
JAN. 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR NEVADA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.

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In Cooperation with

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DEPARTMENT OF CONSERVATION AND
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CARSON CITY, NEVADA
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Report prepared by

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WATER SUPPLY OUTLOOK FOR NEVADA

SNOW COURSE MEASUREMENTS

Snow course measurements taken during the last few days of December indicate the snow water contents of the snowpack are below average on all except the snow courses on or near the Sierra crest.

The percent snow water as compared to the January 1 average is 85 percent in the Tahoe-Truckee Basin; 85 percent in the Carson-Walker Basin; and 60 percent in the Humboldt Basin. Nearly all of the Sierra snowpack has been received since December 20, 1979. Because of the recent snowpack, densities of the measurements were much lower than average. The new snowfall came from cold storms and had little time for settlement. However, the December 30-31, 1979, storm settled the snowpack with rain up to elevation of 7,000 feet. Most water was absorbed by the snowpack except on the shallow snowpacks at the lower elevations. Snow in these areas was removed.

The Upper Humboldt Basin has about 60 percent snow water with all snowpack being at the upper elevations.

RESERVOIR STORAGE

Lake Tahoe contains 85,000 acre-feet for 19 percent of average for January 1. This is above last year's 57,000 acre-feet.

Other storage in the Truckee Basin is Boca Reservoir, containing 14,000 acre-feet (74 percent of average), and Stampede with 59,000 acre-feet and Prosser Reservoir with 10,000 acre-feet, both similar to last year's capacity.

Lahontan Reservoir in the Carson Basin contains 174,000 acre-feet compared to 202,000 acre-feet last year and 187,000 acre-feet average.

Topaz and Bridgeport Reservoirs in the Walker Basin each contain 18,000 acre-feet; half as much as last year and 62 percent of average.

Rye Patch Reservoir on the Humboldt River contains 90,000 acre-feet; twice last year's total but slightly below average.

Wildhorse Reservoir contains 33,000 acre-feet compared to last year's 27,000 acre-feet and an average of 29,000 acre-feet.

Above average precipitation will be needed the remainder of the season to have average streamflow this season.

STREAMFLOW FORECASTS

Streamflow forecasts which appear in this bulletin are a coordinated activity of the National Weather Service and the Soil Conservation Service in an effort to provide the best possible forecasting service to water users.

SNOW COVER

Snow Cover maps for the Tahoe-Truckee, Carson-Walker and Humboldt Basins will be included in this year's Water Supply Outlook bulletins. This data is furnished by the National Environmental Satellite Services, Washington, D.C. and is taken from the GOES 3 satellite stationed at an altitude of 22,500 miles, at a position 135° West and over the equator. Resolution is approximately 1 sq km (247 acres).

Images represent the area covered by snow on the date indicated. The extent of snow cover is indicated as a percentage of the basin. The image presented in the bulletin corresponds with dates of manual snow course measurements. Other information received during the month is listed. This is another parameter that provides data for more reliable streamflow forecasts, especially during melt-out periods.

STREAMFLOW FORECASTS (Thousand Acre Feet) as of: January 1, 1980

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All overages are for 1963-77 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
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TRUCKEE RIVER

Truckee River at Farad, CA ^{1/ 2/}	April-July	240	88	273
Lake Tahoe Rise in Feet (assuming gates closed) ^{1/}	April 1 to high	1.25	88	1.42
Little Truckee River above Boca, CA ^{1/}	April-July	70	81	86

CARSON RIVER

East Carson near Gardnerville, NV	April-July	165	88	187
West Carson at Woodfords, CA	April-July	46	87	53
Carson River near Carson City, NV	April-July	155	85	183
Carson near Fort Churchill, NV	April-July	140	84	167

WALKER RIVER

East Walker near Bridgeport, CA ^{3/}	April-Aug.	60	87	69
West Walker below Little Walker near Coleville, CA	April-July	130	89	146

HUMBOLDT

Lamoille Creek near Lamoille, NV	April-July	22	76	29
S. Fork Humboldt above Dixie Creek, NV	April-July	50	68	73
Marys River above Hot Springs, NV	April-July	29	78	37
N. Fork Humboldt at Devils Gate, NV	April-July	28	80	35
Humboldt River at Palisade, NV	April-July	150	67	221
Humboldt River at Comus, NV	April-July	115	65	178
Martin Creek near Paradise, NV	April-July	12	80	15

SNAKE RIVER

Owyhee River near Gold Creek, NV ^{4/}	April-July	16	70	23
Owyhee River near Owyhee, NV	April-July	52	65	80

1. Forecast issued by Truckee Basin Water Committee

2. Observed flow plus change in storage in Boca, Stampede, Prosser Reservoir, Donner, Independence and Martis Creek Lakes and minus the flow at Truckee River at Tahoe City, CA.

3. Observed flow plus change in storage in Bridgeport Reservoir

4. Observed flow plus change in storage in Wildhorse Reservoir

SATELLITE SNOW COVER

TAHOE-TRUCKEE, CARSON AND WALKER BASINS

January 1, 1980



SCALE 1:2,000,000
 DATA PROVIDED BY NOAA/NESS
 WASHINGTON D.C.

<u>DATE</u>	<u>BASIN</u>	<u>PERCENT SNOW COVER</u>
Nov. 29, 1979	Tahoe-Truckee	7%
Nov. 29, 1979	Carson	3%
Nov. 29, 1979	Walker	3%
Dec. 27, 1979	Tahoe-Truckee	68%
Dec. 27, 1979	Carson	31%
Dec. 27, 1979	Walker	67%

SATELLITE SNOW COVER **HUMBOLDT RIVER ABOVE COMUS, NEVADA** January 1, 1980



SCALE 1:2,500,000
 DATA PROVIDED BY NOAA/NESS
 WASHINGTON, D.C.

<u>DATE</u>	<u>PERCENT SNOW COVER</u>	<u>DATE</u>	<u>PERCENT SNOW COVER</u>
Nov. 5, 1979	29.0%		
Nov. 12, 1979	3.0%		
Nov. 27, 1979	71.0%		
Dec. 6, 1979	18.0%		
Dec. 11, 1979	14.0%		
Dec. 16, 1979	16.0%		
Dec. 25, 1979	97.4%		
Dec. 26, 1979	81.0%		

RESERVOIR STORAGE (Thousand Acre Feet) AS OF January 1, 1980

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
Owyhee	Wild Horse	72	33	27	29
Lower Humboldt	Rye Patch	172	90	45	106
Colorado	Mohave	1,810	1,631	1,680	1,589
Colorado	Mead	26,159	22,629	21,976	17,421
Tahoe	Tahoe	732	85	57	445
Truckee	Boca	41	14	21	19
Truckee	Stampede**	220	59	61	112*
Truckee	Prosser***	30	10	9	8
Carson	Lahontan	291	174	202	187
West Walker	Topaz	59	18	34	31
East Walker	Bridgeport	42	18	36	27

* Adjusted average.
†† Storage began August 1, 1969.
*** Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average †
October 1	430	472	786
January 1	432	422	844
February 1		495	920
March 1		541	968
April 1		646	1,135
May 1		712	1,033

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.
TOTAL USABLE CAPACITY 1,409

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
No forecast issued January 1		

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
No forecast issued January 1			

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

LAKE TAHOE-TRUCKEE RIVER

Donner Summit	6,900				8.0	15.3
Echo Peak	7,800	12/27/79	52	14.0	8.6	--
Echo Summit	7,450				8.5	13.0
Fallen Leaf	6,240	12/27/79	25	4.6	2.6	--
Freel Bench	7,300	12/27/79	21	3.5	4.7	5.4
Glenbrook #2	6,900	12/29/79	17	3.4	4.6	4.1*
Hagan's Meadow	8,000	12/27/79	31	5.9	5.8	7.4
Heavenly Valley	8,800	12/27/79	37	7.7	8.4	11.8*
Independence Camp	7,000	12/27/79	33	5.8	4.4	8.1
Independence Creek	6,500	12/27/79	28	4.4	2.2	--
Independence Lake	8,450	12/27/79	65	9.1	6.1	--
Marlette Lake	8,000	12/27/79	30	5.8	7.8	8.7*
Mount Rose	9,000	12/27/79	40	9.5	7.0	--
Mount Rose Ski Area	8,850	12/26/79	69	14.8	8.0	17.2*
Richardsons #2	6,500	12/29/79	21	5.2	5.8	6.1*
Sage Hen Creek	6,500	NS			2.7	--
Squaw Valley #2	7,500	12/27/79	65	17.1	9.8	--
Squaw Valley Gold Coast	8,200	NS			--	--
Tahoe City Cross	6,750	12/29/79	27	6.0	4.9	6.0*
Truckee #2	6,400	NS			3.5	--
Upper Truckee	6,500	12/27/79	18	3.2	5.1	4.4
Ward Creek #2	7,000	12/26/79	58	13.4	8.9	13.0*
Ward Creek #3	6,750	12/27/79	53	12.1	9.3	12.1

CARSON-WALKER RIVERS

Blue Lake	8,000	1/2/80	58	14.3	8.7	--
Ebbetts Pass AM	8,700	12/27/79	61	14.0a	7.3a	--
Ebbetts Pass #2	8,700	12/27/79	55	12.8	9.0	--
Leavitt Lake	9,400	12/27/79	64	16.7	10.5	--
Leavitt Meadows	7,200	12/27/79	23	4.1	4.6	--
Lobdell Lake	9,200	12/27/79	29	5.2	4.4	--
Lobdell Lake AM	9,200	12/27/79	23	4.1a	4.0a	--
Poison Flat #2	7,900	12/27/79	27	4.5	6.2	--
Poison Flat AM	7,900	12/27/79	20	3.4a	5.7a	--
Sonora Pass	8,800	12/27/79	40	7.7	5.9	9.6
Sonora Pass Bridge	8,800	12/27/79	44	8.5	6.5	10.0*
Upper Fish Valley	8,050	12/27/79	44	7.5a	6.0a	--
Virginia Lakes	9,500	12/27/79	29	5.0	5.0	6.8
Virginia Lakes Ridge	9,200	12/27/79	34	6.1	5.6	6.6*
Wet Meadows Lake #2	8,100	NS			11.7a	--
Wet Meadows Lake AM	8,050	NS				

SNAKE RIVER

Bear Creek AM	7,800					8.1*
Goat Creek	8,800	12/29/79	24	6.4	5.6a	7.9*
Big Bend	6,700	NS			3.3	--
Hummingbird Springs AM	8,945					10.2*
Pole Creek Ranger Station	8,330	12/29/79	29	9.0	8.1	9.1
76 Creek AM	7,100	NS			2.6a	5.3*

+ 1963-1977 period.

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content	
NAME	Elevation				Last Year	Average †

OWYHEE RIVER

Taylor Canyon	6,200	12/27/79	4	0.6	2.7	2.1
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UPPER AND LOWER HUMBOLDT RIVER

Fry Canyon	6,700	12/27/79	11	2.5	3.0	3.2
Rodeo Flat	6,800	12/27/79	8	2.0	2.7	2.8
Tremewan Ranch	5,700	12/27/79	1	0.1	0.6	1.0

OTHER MEASUREMENTS

SNOTEL RADIO READINGS WITH NO MANUAL MEASUREMENTS

Bear Creek	7,800	12/10/79		4.6	3.1	--
Big Bend	6,700	12/31/79		1.3	3.3	--
Cedar Pass	7,100	12/31/79		7.9		--
Corral Canyon	8,500	12/31/79	--	3.6	8.1	--
Dorsey Basin	8,100	12/31/79		4.0	5.3	--
Jack Creek, Upper	7,250	12/31/79		5.7	5.8	--
Laurel Draw	6,700	12/31/79		2.0	--	--
76 Creek	7,100	12/31/79		2.5	4.2	--

TAHOE-TRUCKEE BASIN

Alder Creek	6,960	1/1/80	43	12.5	6.4	--
Apollo Way	7,300	12/29/79	26	5.7	1.9	--
Bennett Flat	6,200	1/1/80	23	5.6	2.1	--
Brockway Summit	7,200	1/1/80	44	10.8	3.5	--
Davis Creek	5,160	12/30/79	5	1.3	1.8	--
Evergreen Hills Road	5,700	12/28/79	17	3.6	1.7	--
Galena Creek	7,440	NS			6.4	--
Hobart Mills	5,850	1/1/80	16	3.8	1.8	--
Incline Lake	8,000	12/29/79	37	8.5	4.4	--
Jones Creek	6,000	12/29/79	17	3.2	2.1	--
Mount Rose Resort	8,280	12/29/79	44	10.2	7.8	--
North Star Fire Department	6,320	1/1/80	15	3.7	3.7	--
RNR Test Site	6,400	12/29/79	23	5.1	4.2	--
Sky Tavern	7,620	12/28/79	37	7.9	4.8	--
Spooner Summit	7,620	12/29/79	23	4.6	6.5	--
Squaw Valley Fire Department	6,240	1/1/80	23	7.1	3.0	--
Sundance Lodge	7,060	NS			4.3	--
Tahoe Meadows	8,540	12/29/79	56	14.3	8.1	--
Tamarack Lake	8,820	NS			8.5	--
Third and Incline Creeks	6,235	12/29/79	10	2.6	1.8	--
Thunder Cliff	6,200	1/1/80	18	5.3	3.8	--
Truckee Airport	5,900	1/1/80	8	2.2	2.6	--
White Creek	5,670	12/28/79	14	2.7	1.6	--

* Short Record, 7-14 year average

a Aerial Marker

NS Not Surveyed

NOTE:

All averages based on 1963-77, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted. a-Aerial marker; water content estimated. * 1963-77 adjusted average.

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	1978
<u>TAHOE-TRUCKEE</u>							
Echo Peak (CA)	7,800	10/1/79 to 10/31/79	8.1	--	8.1	--	--
		10/31/79 to 11/30/79	5.9	--	14.0	--	--
		11/30/79 to 12/30/79	8.9	--	22.9	7.9	19.9
Fallen Leaf (CA)	6,240	10/1/79 to 10/31/79	4.0	0.0	4.0	0.0	--
		10/31/79 to 11/30/79	3.0	1.9	7.0	1.9	--
		11/30/79 to 12/31/79	5.5	3.8	12.5	5.7	13.5
Hagan's Meadow (CA)	8,000	10/1/79 to 10/31/79	3.7	0.4	3.7	0.4	--
		10/31/79 to 11/30/79	3.1	0.8	6.8	1.2	--
		11/30/79 to 12/31/79	5.7	1.3	12.5	3.5	13.2
Heavenly Valley (CA)	8,800	10/1/79 to 10/31/79	3.4	1.1	3.4	1.1	--
		10/31/79 to 11/30/79	3.3	2.8	6.7	3.9	--
		11/30/79 to 12/27/79	3.0	4.2	9.7	8.1	13.7
Independence Camp (CA)	7,000	10/1/79 to 10/31/79	4.4	0.5	4.4	0.5	--
		10/31/79 to 11/30/79	2.3	2.1	6.7	2.6	--
		11/30/79 to 12/31/79	5.2	2.8	11.9	5.4	11.8
Independence Creek (CA)	6,500	9/27/79 to 11/5/79	3.9	--	3.9	--	--
		11/5/79 to 12/27/79	4.2	--	8.1	3.4	12.1
Independence Lake (CA)	8,450	10/1/79 to 10/31/79	4.0	0.1	4.0	0.1	--
		10/31/79 to 11/30/79	2.6	1.9	6.6	2.0	--
		11/30/79 to 12/31/79	8.5	2.1	15.1	4.1	12.1
Marlette Lake (CA)	8,000	10/1/79 to 10/31/79	2.1	0.9	2.1	0.9	--
		10/31/79 to 11/30/79	2.2	3.2	4.3	4.1	--
		11/30/79 to 12/31/79	5.2	4.5	9.5	8.6	15.1
Mt. Rose (NV)	9,000	10/1/79 to 10/31/79	2.6	0.1	2.6	0.1	--
		10/31/79 to 11/30/79	2.0	4.8	4.6	4.9	--
		11/30/79 to 12/31/79	5.7	2.1	10.3	7.0	10.5
Mt. Rose Ski Area (NV)	9,000	9/13/79 to 10/26/79	3.7	--	3.7	--	--
		10/26/79 to 12/11/79	2.4	--	6.1	5.8	--
		12/11/79 to 12/27/79	10.1	--	16.2	9.3	--
Tahoe City Cross (CA)	6,750	9/27/79 to 10/26/79	3.8	--	3.8	--	--
		10/26/79 to 12/29/79	8.2	--	12.0	6.1	10.1
Ward Creek #3 (CA)	6,750	10/1/79 to 10/31/79	7.8	1.6	7.8	1.6	--
		10/31/79 to 11/30/79	6.8	4.8	14.6	6.4	--
		11/30/79 to 12/31/79	9.3	4.5	23.9	10.9	22.4
<u>CARSON-WALKER</u>							
Blue Lakes	8,000	10/3/79 to 1/2/80	16.4	--	16.4	--	--
Ebbetts Pass (CA)	8,700	10/1/79 to 10/31/79	4.5	0.5	4.5	0.5	--
		10/31/79 to 11/30/79	4.5	5.2	9.0	5.5	--
		11/30/79 to 12/31/79	9.2	4.9	18.2	10.6	15.7

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	1978
<u>CARSON-WALKER (contd.)</u>							
Leavitt Meadows (CA)	7,200	8/8/79 to 12/27/79	9.5	--	9.5	5.6	--
Lobdell Lake (CA)	9,200	10/1/79 to 10/31/79	1.5	0.8	1.5	0.8	--
		10/31/79 to 11/30/79	1.5	2.1	3.0	2.9	--
		11/30/79 to 12/30/79	4.2	2.4	7.2	5.3	--
		12/30/79					
Poison Flat (CA)	7,900	9/24/79 to 12/27/79	8.0	--	8.0	9.1	11.1
Sonora Pass Bridge (CA)	8,800	10/1/79 to 10/31/79	2.4	0.4	2.4	0.4	--
		11/30/79 to 11/30/79	2.6	3.9	5.0	4.3	--
		11/30/79 to 12/30/79	6.6	2.1	11.6	6.4	13.1
		12/30/79					
Virginia Lakes Ridge (CA)	9,200	10/1/79 to 10/31/79	1.7	0.8	1.7	0.8	--
		10/31/79 to 11/30/79	2.1	2.7	3.6	3.5	--
		11/30/79 to 12/31/79	4.5	3.0	8.1	6.5	12.7
		12/31/79					
Wet Meadows (CA)	8,100	Not avail- able	--	--	--	--	11.1
<u>HUMBOLDT</u>							
Corral Canyon	8,500	10/1/79 to 10/31/79	2.6	0.8	2.6	0.8	--
		10/31/79 to 11/30/79	3.3	3.9	5.9	4.7	--
		11/30/79 to 12/31/79	0.7	2.5	6.6	7.2	--
		12/31/79					
Dorsey Basin	8,100	10/1/79 to 10/31/79	2.1	0.6	2.1	0.6	--
		10/31/79 to 11/30/79	3.5	3.7	5.6	4.3	--
		11/30/79 to 12/31/79	1.0	1.7	6.6	6.0	--
		12/31/79					
Green Mountain	8,000	10/1/79 to 10/31/79	0.9	--	0.9	--	--
		10/31/79 to 11/30/79	3.8	--	4.7	--	--
		11/30/79 to 12/31/79	0.6	--	5.3	--	--
		12/31/79					
Rodeo Flat	6,800	9/27/79 to 12/27/79	6.0	3.7	6.0	3.7	4.9
<u>SNAKE-OWYHEE</u>							
Bear Creek	7,800	10/1/79 to 10/31/79	4.5	1.8	4.5	1.8	--
		10/31/79 to 11/30/79	3.3	2.2	7.8	4.0	--
		11/30/79 to 12/10/79	0.2	3.9	8.0	7.9	--
		12/10/79					
Big Bend	6,700	10/1/79 to 10/31/79	2.9	0.0	2.9	0.0	--
		10/31/79 to 11/30/79	2.0	1.2	4.9	1.2	--
		11/30/79 to 12/31/79	0.5	2.9	5.4	2.9	--
		12/31/79					
Jack Creek, Upper	7,250	10/1/79 to 10/30/79	3.9	0.0	3.9	0.0	--
		10/30/79 to 11/29/79	2.9	2.7	6.8	2.7	--
		11/29/79 to 12/31/79	0.8	3.1	7.6	5.8	--
		12/31/79					
Laurel Draw	6,700	10/1/79 to 10/31/79	5.0	--	5.0	--	--
		10/31/79 to 11/30/79	2.7	--	7.7	--	--
		11/30/79 to 12/31/79	1.3	--	9.0	--	--
		12/31/79					
76 Creek	7,100	10/1/79 to 10/31/79	3.3	0.0	3.3	0.0	--
		10/31/79 to 11/30/79	2.5	3.6	5.8	3.6	--
		11/30/79 to 12/21/79	0.6	0.6	6.4	4.2	--
		12/21/79					

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	1978
<u>SNAKE-OWYHEE (contd.)</u>							
Taylor Canyon (CA)	6,200	10/1/79 to 12/27/79	2.3	2.2	2.3	2.7	3.6
<u>NORTHERN GREAT BASIN</u>							
Cedar Pass	7,100	10/1/79 to 10/31/79	5.4	0.0	5.4	0.0	--
		10/31/79 to 11/30/79	5.4	2.3	10.8	2.3	--
		11/30/79 to 12/31/79	2.1	1.5	12.9	3.8	--

Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

- Agricultural Research Service
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Soil Conservation Service
- U. S. District Court - Federal Water Master
- NOAA, National Weather Service

STATE

- California Cooperative Snow Surveys
- California Department of Parks and Recreation
- California Department of Water Resources
- Colorado River Commission of Nevada
- Idaho Cooperative Snow Surveys
- Nevada Association of Conservation Districts
- Nevada Department of Conservation & Natural Resources
 - Division of Water Resources
 - Nevada State Forester
- Oregon Cooperative Snow Surveys
- University of Nevada, Desert Research Institute
- Utah Cooperative Snow Surveys
- White Mountain Research Station, Univ. of California

PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas and Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Truckee-Carson Irrigation District
- Walker River Irrigation District
- Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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